

R. D. COX.

Brick Kiln.

No. 99,852.

Patented Feb. 15, 1870.

Fig: 1.

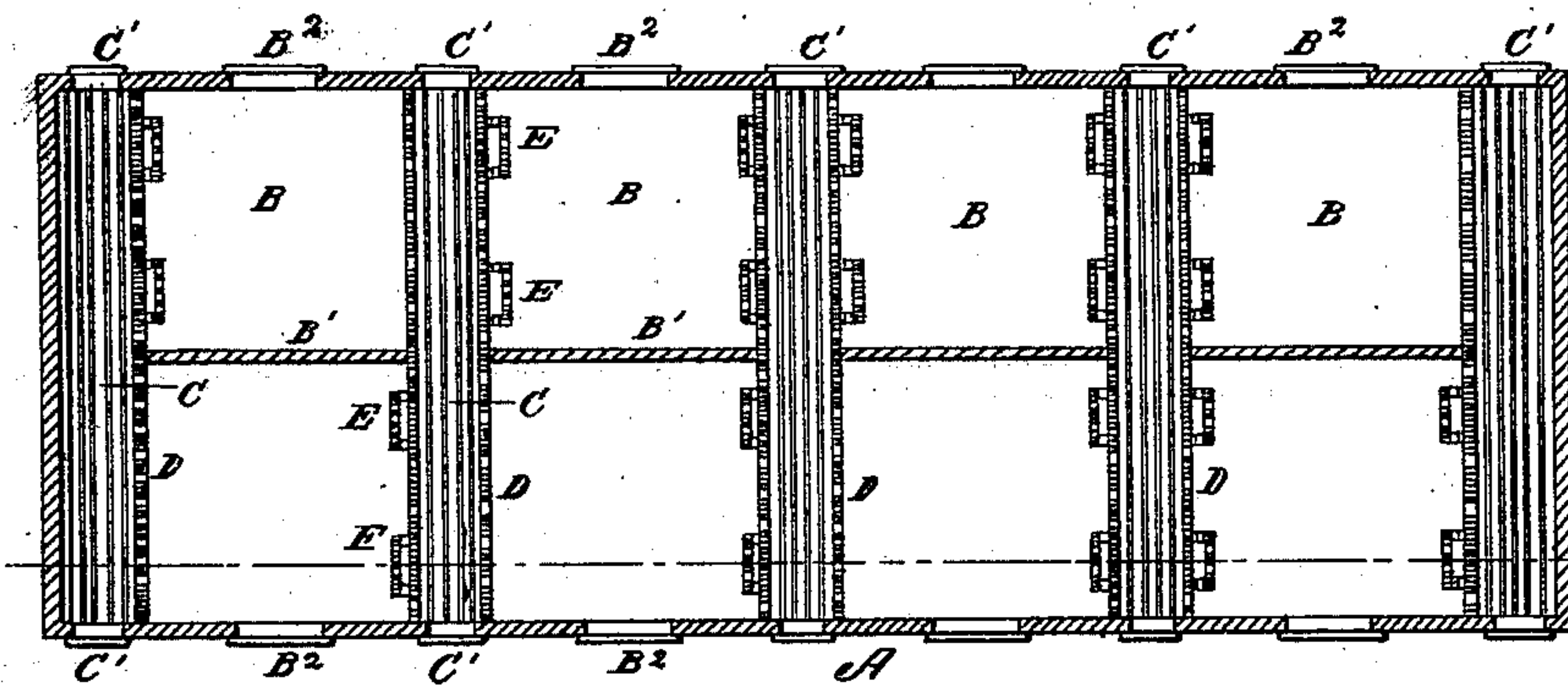


Fig: 2.

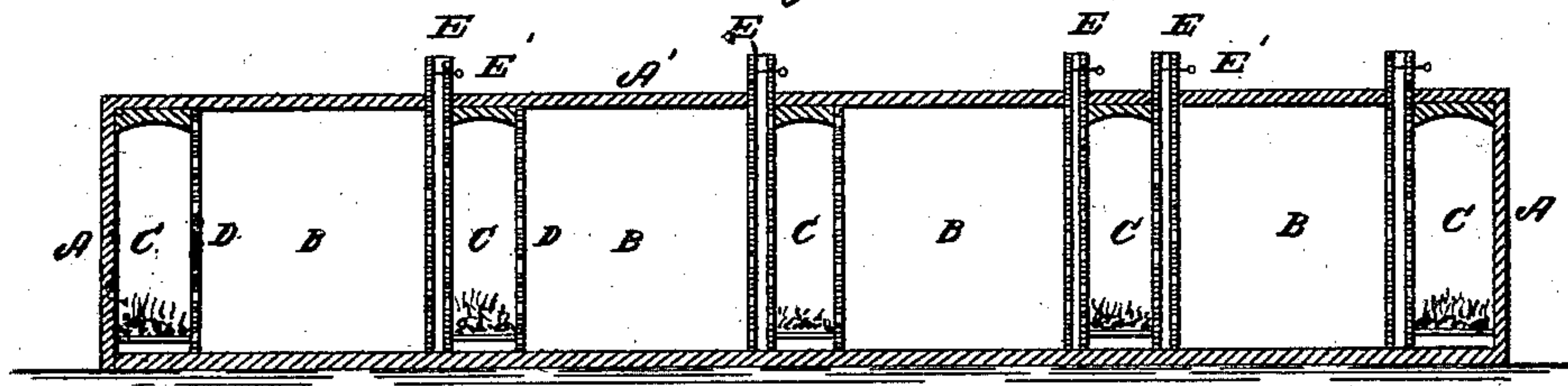
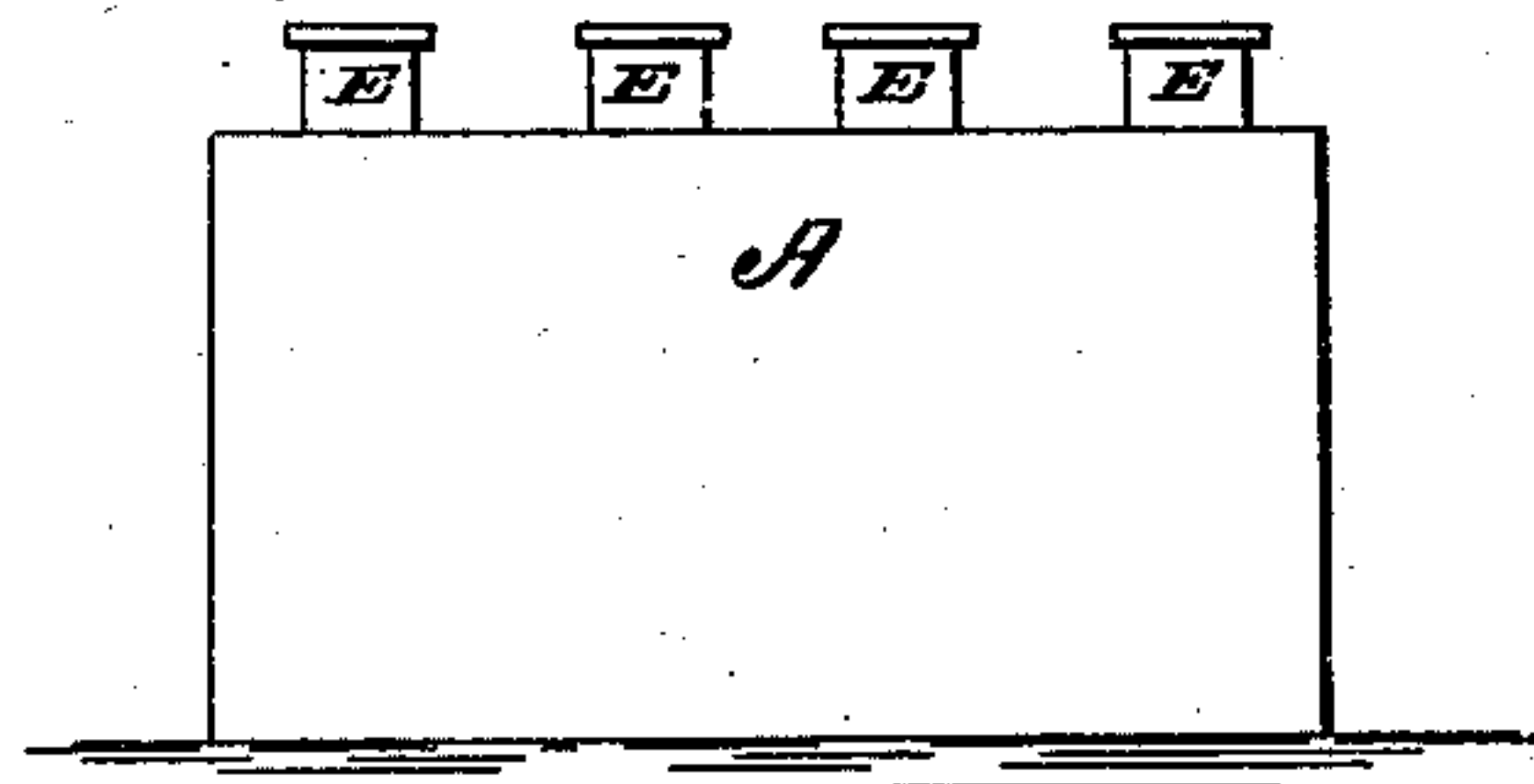


Fig: 3.



Attest:
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RICHARD D. COX, OF PHILADELPHIA, PENNSYLVANIA.

Letters Patent No. 99,852, dated February 15, 1870.

IMPROVEMENT IN BRICK-KILNS.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, RICHARD D. COX, of the city and county of Philadelphia, and State of Pennsylvania, have invented certain Improvements in Brick-Kilns; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the annexed drawings, making part of this specification, in which—

Figure 1 is a horizontal section.

Figure 2 is a vertical section.

Figure 3 is an end elevation.

The same letters are used in all the figures to designate identical parts.

My invention relates to the combination and arrangement of the parts forming a continuous kiln, as will be hereinafter set forth in the following specification and claims.

A is a permanent wall forming a rectangular kiln. It is subdivided into compartments B B by permanent pigeon-holed walls built on each side of the combustion-chambers C, which are placed between the compartments, except at the ends, where they are placed between the compartments and the solid end walls.

The compartments may be entered by doors B² B², and they may, if for any purpose so desired, be divided by cross-walls B¹.

The combustion-chambers extend entirely across the kiln and have doors C' C' placed at each end, and extend upward to the top of the kiln.

The pigeon-holes in the walls D are so proportioned as to equalize the horizontal draft from the combustion-chambers through the kiln from all parts of the combustion-chamber.

The chimneys E are built against the walls D, and have similar pigeon-holes to draw the draft into the

chimneys. They are closed by dampers E', so that the draft may be taken out of any compartment or carried horizontally through as many as may be desired in a straight line, thereby equalizing the circulation of heat throughout.

I am aware that combustion-chambers have been arranged between the compartments of a continuous kiln built in the form of a circle or ellipse, and I therefore do not claim them broadly, but only in the described arrangement in relation to the compartments and chimneys.

What I claim as my invention, and desire to secure by Letters Patent, is—

1. The combination and arrangement of combustion-chambers extending across the kiln, pigeon-holed walls D separating the combustion-chambers from the compartments B and pigeon-holed chimneys E, with dampers E', arranged in relation to one another substantially as set forth.

2. In combination with a series of compartments, B, arranged in the same line in a rectangular kiln, the combustion-chambers C extending entirely across the kiln, having fire-doors at both ends, and arranged to separate the kilns, the pigeon-holed walls intervening, so that a horizontal draft may be carried in straight lines through a series of compartments, substantially as set forth.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

RICHARD D. COX.

Witnesses:

R. MASON,

T. C. CONNOLLY.